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PTO/SB/08A (10-96)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/982,826
				Filing Date	October 22, 2001
				First Named Inventor	Bronstein et al
				Group Art Unit	2185
				Examiner Name	
Sheet	1	of	15	Attorney Docket Number	24709

U.S. PATENT DOCUMENTS						
Examiners Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
DZL	AA	5,408,405		Mozumder et al	04-18-1995	
DZL	AB	5,546,312		Mozumder et al	08-13-1996	
DZL	AC	5,646,870		Krivokapic et al	07-08-1997	
	AD	5,781,430		Tsai	07-14-1998	
	AE	5,866,437		Chen et al	02-02-1999	
	AF	5,929,846		Rosenberg et al	07-27-1999	
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	AK	5,999,168		Rosenberg et al	12-07-1999	
	AL	6,020,875		Moore et al	02-01-2000	
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	AY	6,104,158		Jacobus et al	08-15-2000	
	AZ	6,104,382		Martin et al	08-15-2000	
	BA	6,125,235		Padilla et al	09-26-2000	
DZL	BB	6,125,385		Wies et al	09-26-2000	

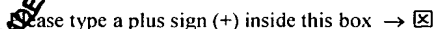
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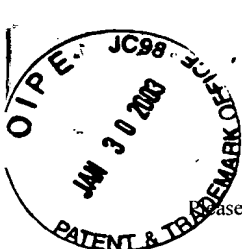
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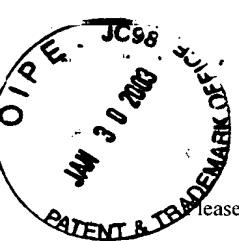
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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DZC	BY	Van Epps et al, Harvesting, Characterization, and Culture of CD34+ Cells from Human Bone Marrow, Peripheral Blood, and Cord Blood, Blood Cells, 1994. Vol. 20, pp. 411-424	
	BZ	Emerson, Ex Vivo Expansion of Hematopoietic Precursors, Progenitors, and Stem Cells: The Next Generation of Cellular Therapeutics, Blood, Vol. 87, No. 8, April 15, 1996, pp. 3082-3088	
	CA	Brugger, et al., Reconstitution of Hematopoiesis After High-Dose Chemotherapy by Autologous Progenitor Cells Generated Ex Vivo, The New England Journal of Medicine, Vol. 333, No. 5, pp. 283-287	
	CB	Williams et al., Selection and Expansion of Peripheral Blood CD34+ Cells in Autologous Stem Cell Transplantation for Breast Cancer, Blood, Vol. 87, March 1, 1996, pp. 1687-1681	
	CC	Zimmerman, et al, Large-Scale Selection of CD34+ Peripheral Blood Progenitors and Expansion of Neutrophil Precursors for Clinical Applications, Journal of Hematotherapy, Vol. 5, 1996, pp. 247-253	
	CD	Koller et al., Large-Scale Expansion of Human Stem and progenitor Cells from Bone Marrow Mononuclear Cells in Continuous Perfusion Cultures, Blood, Vol. 82, No. 2, July 15, 1993, pp. 378-384	
	CE	Lebkowski et al, Rapid Isolation and Serum-Free Expansion of Human CD34+ Cells, Blood Cells, 1994, Vol. 20, pp. 404-410	
DZC	CF	Sandstrom et al., Effects of CD34+ Cell Selection and Perfusion on Ex Vivo Expansion of Peripheral Blood Mononuclear Cells, Blood, Vol. 96, No. 3, August 1, 1995, pp. 958-970	

Examiner Signature	Daniel chung	Date Considered	10/24/03
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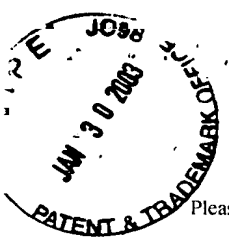
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DZC	CG	Eipers, et al., Retroviral-Mediated Gene Transfer in Human Bone Marrow Cells Grown in Continuous Perfusion Culture Vessels, Blood, Vol. 10, November 15, 1995, pp. 3754-3762	
	CH	Freedman, et al., Generation of Human T Lymphocytes from Bone Marrow CD 34+ cells in vitro, Nature Medicine, Vol. 2, No. 1, January 1996, pp. 46-51	
	CI	Heslop et al., Long-Term Restoration of Immunity Against Epstein-Barr Virus Infection by Adoptive Transfer of Gene-Modified Virus-Specific T Lymphocytes, Nature Medicine, Vol. 2, No. 5, May 1996, pp. 551-555	
	CJ	Protti, et al., Particulate Naturally Processed Peptides Prime a Cytotoxic Response Against Human Melanoma <i>in Vitro</i> , Cancer Research, 56, March 15, 1996, pp. 1210-1213	
	CK	Rosenberg, et al., Prospective Randomized Trial of High-Dose Interleukin-2 Alone or in Conjunction with Lymphokine-Activated Killer Cells for the Treatment of Patients with Advanced Cancer, Journal of the National Cancer Institute, Vol. 85., No. 8, April 21, 1993, pp. 622-632	
	CL	Bernhard, et al., Generation of Immunostimulatory Dendritic Cells from Human CD34+ Hematopoietic Progenitor Cells of the Bone Marrow and Peripheral Blood, Cancer Research, Vol. 55, March 1, 1995, pp. 1099-1104	
	CM	Fisch, et al., Generation of Antigen-Presenting Cells for Soluble Protein Antigens <i>ex vivo</i> from Peripheral Blood CD34+ Hematopoietic Progenitor Cells in Cancer Patients, Eur. J. Immunol, 1996, Vol., 26, pp. 595-600	
DZC	CN	Siena et al., Massive <i>ex vivo</i> generation of functional dendritic cells from mobilized CD 34+ Blood Progenitors for Anticancer Therapy, Experimental Hematology, Vol. 23, 1995, pp. 1463-1471	

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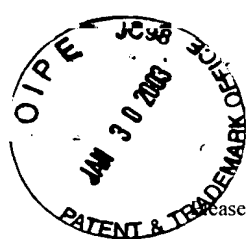
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D2C	CO	Petzer et al., Differential Cytokine Effects on Primitive (CD34+ CD38 ⁻) Human Hematopoietic Cells: Novel Responses to Flt3-Ligand and Thrombopoietin, Acad. Sci., Vol. 87, pp. 2551-2558	
	CP	Schwartz, et al., In Vitro Myclopoeisis Stimulated by Rapid Medium Exchange and Supplementation with Hematopoietic Growth Factors, Blood, Vol., 78, No. 12, December 15, 1991, pp. 3155-3161	
	CQ	Verfaillie, Can Human Hematopoietic Stem Cells be Cultured Ex Vivo? Stem Cells, 1994, Vol. 12, pp. 466-476	
	CR	Haylock, et al., Ex Vivo Expansion and Maturation of Peripheral Blood CD 34+ Cells into the Myclod Lineage, Blood, Vol. 80, No. 5, September 15, 1992, pp. 1405-1412	
	CS	Brugger, et al., Ex Vivo Expansion of Enriched Peripheral Blood CD 34+ Progenitor Cells by Stem Cell Factor, Interleukin-1 β (IL-1 β), IL-6, IL-3, Interferon- γ , and Erythropoietin, Blood, Vol. 81, No. 10, May 15, 1993, pp. 2579-2584	
	CT	Sato, et al., In Vitro Expansion of Human Peripheral Blood CD 34+ Cells, Blood, Vol. 82, December 15, 1993, pp. 3600-3609	
D2C	CU	Fibach, et al., Proliferation and Maturation of Human Erythroid Progenitors in Liquid Culture, Blood, Vol., 73, No. 1, January 1998, pp. 100-103	
	CV	Fibach et al., Growth of Human Normal Erythroid Progenitors in Liquid Culture: A Comparison with Colony Growth in Semisolid Culture, International Journal of Cell Cloning, Vol. 9, 197, pp. 57-64	

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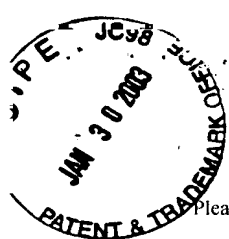
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D7C	CW	Fibach, et al., The Two-Step Liquid Culture: A Novel Procedure for Studying Maturation of Human Normal and Pathological Erythroid Precursors, Stem Cells, 1993, Vol. 11 (suppl. 1) pp. 36-41	
	CX	Dalyot et al., Adult and Neonatal Patterns of Human Globin Gene Expression are Recapitulated in Liquid Cultures, Experimental Hematology, Vol. 20, 1992, pp. 1141-1145	
	CY	Banno et al., Anemia and Neutropenia, Vol. 35, November 11, 1994, pp. 1276-1281	
	CZ	Wasa, et al., Copper Deficiency with Pancytopenia During Total Parenteral Nutrition, Journal of Parenteral and External Nutrition, March-April 1994, Vol. 18, No. 3, pp. 190-192	
	EA	Zidar, et al., Observations on the Anemia and Neutropenia of Human Copper Deficiency, American Journal of Hematology, No. 3, 1977, pp. 177-185	
	EB	Hirase, et al., Anemia and Neutropenia in a Case of Copper Deficiency: Role of Copper in Normal Hematopoiesis, Acta Haematol, 1992, Vol. 87, pp. 195-197	
	EC	Percival, et al., L-60 Cells can be made Copper Deficient by Incubating with Tetraethylenepentamine ^{1,2,3} , American Institute of Nutrition, August 25, 1992, pp. 2424-2429	
	ED	Percival, et al., Neutropenia Caused by Copper Deficiency: Possible Mechanisms of Action, Nutrition Reviews, Vol. 53, No. 3, March 1995, pp. 56-66	
D7C	EE	Bae, et al., Retinoic Acid-Induced HL-60 Cell Differentiation is Augmented by Copper Supplementation ¹⁻⁴ , American Institute of Nutrition, January 26, 1993, pp. 997-1002	

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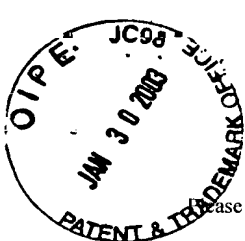
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DZC	EF	Bae, et al., Copper Uptake and Intracellular Distribution During Retinoic Acid-Induced Differentiation of HL-60 Cells, J. Nutr. Biochem, September 5, 1994, Vol. 5, pp. 457-461	
	EG	Alter, Fetal Erythropoiesis in Stress Hematopoiesis, Experimental Hematology, Vol. 7, Suppl. 5, 1979, pp. 200-209	
	EH	Duncan et al., Repair of Myelin Disease: Strategies and Progress in Animal Models, Molecular Medicine Today, December 1997, pp. 554-561	
	EI	Blau, et al., Fetal Hemoglobin in Acute and Chronic States of Erythroid Expansion, Blood, Vol. 81, No. 1, January 1, 1993, pp. 227-233	
	EJ	Ross, et al., Chelometric Indicator Titrations with the Solid-State Cupric Ion-Selective Electrode, Analytical Chemistry, Vol. 41, No. 13, November 1969, pp. 1900-1902	
	EK	Fosmire, Zinc Toxicity ^{1,2} , American Journal Clinical Nutrition, 1990, Vol., 51, pp. 225-227	
	EL	Simon, et al., Copper Deficiency and Sideroblastic Anemia Associated with Zinc Ingestion, American Journal of Hematology, Vol. 28, 1988, pp. 181-183	
	EM	Hoffman, et al., Zinc-Induced Copper Deficiency, Gastroenterology, 1988, Vol. 94, No. 2, pp. 508-512	
DZC	EN	Reeves, High Zinc Concentrations in Culture Media Affect Copper Uptake and Transport in Differentiated Human Colon Adenocarcinoma Cells ^{1,2,3} , American Institute of Nutrition, February 29, 1996, pp. 1701-1712	

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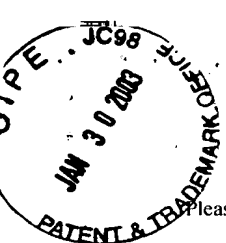
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DZC	EO	Tashiro-Itoh, et al., Metallothionein Expression and Concentrations of Copper and Zinc are Associated with Tumor Differentiation in Hepatocellular Carcinoma, Liver, 1997, Vol. 17, pp. 300-306	
	EP	Cable et al., Exposure of Primary Rat Hepatocytes in Long-Term DMSO Culture to Selected Transition Metals Induces Hepatocyte Proliferation and Formation of Duct-Like Structures, Hepatology, Vol., 26, No. 6, 1997, pp. 1444-1457	
	EQ	Kizaki, et al., Regulation of Manganese Superoxide Dismutase and Other Antioxidant Genes in Normal and Leukemic Hematopoietic Cells and Their Relationship to Cytotoxicity by Tumor Necrosis Factor, Blood, Vol. 82, No. 4, August 15, 1993, pp. 1142-1150	
	ER	Brugnera, et al., Cloning, Chromosomal Mapping and Characterization of the Human Metal-Regulatory Transcription Factor MTF-1, Nucleic Acids Research, 1994, Vol. 22, No. 15, pp. 3167-3173	
	ES	Heuchel, et al., The Transcription Factor MTF-1 is Essential for Basal and Heavy Metal-Induced Metallothionein Gene Expression, The EMBO Journal, 1994, Vol. 13, No. 12, pp. 2870-2875	
	ET	Palmiter, et al., Regulation of Metallothionein Genes by Heavy Metals Appears to be Mediated by a Zinc-Sensitive Inhibitor that Interacts with a Constitutively Active Transcription Factor, MTF-1, Proc. Natl. Acad. Sci, Vol. 91, February 1994, pp. 1219-1223	
DZC	EU	Hatayama, et al., Regulation of hsp70 Synthesis Induced by Cupric Sulfate and Zinc Sulfate in Thermotolerant HeLa Cells, J. Biochem, 1993, Vol. 114, pp. 592-597	

Examiner Signature	<i>Daniel Chury</i>	Date Considered	10/27/01
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				Application Number	09/982,826
				Filing Date	October 22, 2001
				First Named Inventor	Bronstein et al
				Group Art Unit	2185
				Examiner Name	
Sheet	9	of	15	Attorney Docket Number	24709

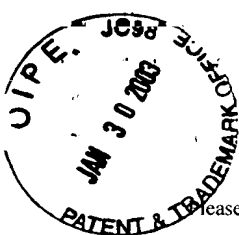
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Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
D7C	EV	Filvaroff, et al., Functional Evidence for an Extracellular Calcium Receptor Mechanism Triggering Tyrosine Kinase Activation Associated with Mouse Keratinocyte Differentiation, The Journal of Biological Chemistry, Vol. 269, No. 34, August 26, 1994, pp. 21735-21740	
	EW	Okazaki, et al., Characteristics and Partial Purification of a Novel Cytosolic, Magnesium-Independent, Neutral Sphingomyelinase Activated in the Early Signal Transduction of 1 α ,25-Dihydroxyvitamin D ₃ -induced HL-60 Cell Differentiation, The Journal of Biological Chemistry, February 11, 1994, Vol. 269, No. 6, pp. 4070-4077	
	EX	Kim, et al., Differentiation and Identification of the Two Catalytic Metal Binding Sites in Bovine Lens Leucine Aminopeptidase by X-Ray Crytallography, Proc. Natl. Acad. Sci, June 1993, Vol. 90, pp. 5006-5010	
	EY	Fibach, Normal Differentiation of Myeloid Leukaemic Cells Induced by a Differentiation-Inducing Protein, Nature New Biology, Vol. 237, June 28, 1972, pp. 276-278	
	EZ	Lapidot, et al., Cytokine Stimulation of Multilineage Hematopoiesis from Immature Human Cells Engrafted in SCID Mice, Reports, February 28, 1992, pp. 1137-1141	
	FA	Cicuttini, et al., Support of Human Cord Blood Progenitor Cells on Human Stromal Cell Lines, Transformed by SV ₄₀ Large T Antigen Under the Influence of an Inducible (Metallothioncin) Promoter, Blood, Vol. 80, No. 1, July 1, 1992, pp. 102-112	
D7C	FB	Pickart et al., Growth-Modulating Plasma Tripeptide May Function by Facilitating Copper Uptake into Cells, Nature, Vol., 288, 18/25 December 1980, pp. 715-717	

Examiner Signature	Daniel chuy	Date Considered	10/29/02
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				Examiner Name	
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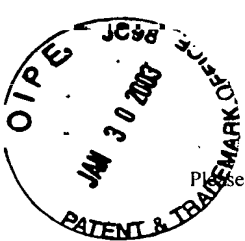
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D7C	FC	Reid, et al., Interactions of Tumor Necrosis Factor with Granulocyte-Macrophage Colony-Stimulating Factor and Other Cytokines in the Regulation of Dendritic Cell Growth in Vitro from Early Bipotent CD34* Progenitors in Human Bone Marrow, The Journal of Immunology, Vol., 149, No. 8, October 15, 1992, pp. 2681-2688	
	FD	Narita, et al., Cariomyocyte Differentiation by GATA-4-Deficient Embryonic Stem Cells, Development 122, 1995, pp. 3755-3764	
	FE	Accutouch Endoscopy Simulator, Immersion Medical, pp 1-9	
	FF	Procedicus VIST, Prof. Jean Marco, pp 1-8	
	FG	Mentice Medical Simulation, pp 1-8	
	FH	Procedicus MIST Suturing Module, one page	
	FI	The New Procedicus, two pages	
D7C	FJ	Xitact Medical Simulation, LS500 Laparoscopy Simulator, 6 pages	

Examiner Signature	Dan R. Chu	Date Considered	10/29/02
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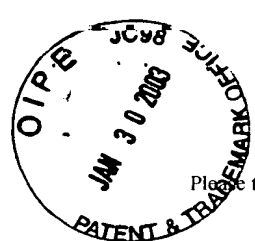
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	FP	6015473		Rosenberg et al	01-18-2000	
	FQ	6057810		Roell et al	05-02-2000	
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	GG	6252583		Braun et al	06-26-2001	
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				Filing Date	October 22, 2001
				First Named Inventor	Bronstein et al
				Group Art Unit	2185
				Examiner Name	
Sheet	12	of	15	Attorney Docket Number	24709

U.S. PATENT DOCUMENTS						
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Examiner Signature	<i>Dan L Chung</i>	Date Considered	10/29/02
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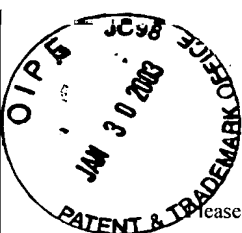
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	IN	20020072814	A1	Schuler, Chester L. et al	06-13-2002	
	IO	20020095224	A1	Braun, Adam C. et al	07-18-2002	
	IP	20020097223	A1	Rosenberg, Louis B.	07-25-2002	
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	JR	WO	9910872	A1	Immersion Human Interface Corporation	03-04-1999		
	JS	WO	9923399	A2	Immersion Corporation	05-14-1999		
D2C	JT	WO	9949443	A2	Immersion Corporation	09-30-1999		
	JU	WO	9952614	A1	Immersion Corporation	10-21-1999		
	JV	WO	9956087	A1	Immersion Corporation	11-04-1999		
	JW	WO	9966997	A1	Immersion Corporation	12-29-1999		

Examiner Signature	Daniel chuy	Date Considered	10/24/02
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹. Unique citation designation number. ². Applicant is to place a check mark here if English language Translation is attached.

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